**IT Applications Unit 3, AOS 1, Online Communities**

1. Complete the following, from pgs, 32: **Network security**

**Networks are classified according to below and we will study the following:**

1. Network Categories: LAN, WAN
2. Network Architecture, client-server; peer-to-peer; internet peer-to-peer; intranet
3. Network communication standards
4. Network hardware and software
5. Transmission media
6. **Network security**
7. What types of physical security measures can be put in place?

**Usernames and passwords**

1. Recommend a password strategy that an organisation could use to avoid unauthorised access to the network.

**Firewall**

1. Describe the nature of a firewall.
2. What are the main purposes of firewalls and how are these purposes achieved?
3. Why do firewalls use 2 separate NICs?

**Malware protection**

1. What is malware and what strategies are used to protect against this type of software?

**Encryption**

1. What is encryption?
2. Describe the nature of WPA or WPA2.
3. What is encrypted data known as?

**Secure Websites**

1. Describe the secure protocol to allow secure financial transactions across the internet.
2. What is digital identification certificate technology based on?
3. Describe the nature of Secure sockets layer (SSL) protocol.

**Physical design of networks**

1. What is the role of a network diagram?